



Glenn Research Center



## Views of the Future — Flame-Synthesized Materials

- ◆ **Sedimentation and buoyant plumes again interfere with understanding both the science of material production and into the quality of the actual industrial product.**
  - For example, the pressure and buoyancy effects on soot-filled flames are not understood sufficiently to determine the ideal operating conditions to maximize fullerene generation in either premixed or diffusion flames.
- ◆ **Microgravity offers the promise of isolating the effects of pressure by removing the influence of buoyancy on the material production process.**